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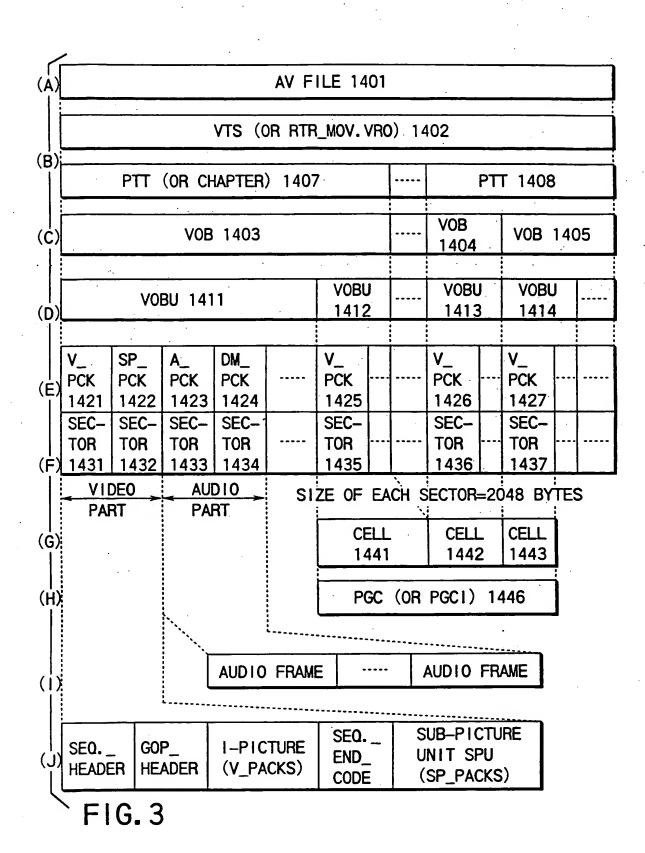
REWRITABLE OPTICAL DISC (DVD RTR DISC) 1001 INNER SIDE 1006 OUTER SIDE 1007 LEAD-IN VOL. & FILE DATA AREA LEAD-OUT **AREA** 1002 MANAGER 1004 AREA 1005 (B) INFO. 1003 (EMBOSSED/ (REWRITABLE (REWRITABLE REWRITABLE (REWRITABLE DATA ZONE) DATA ZONE) DATA ZONE DATA ZONE AUDIO & VIDEO COMPUTER COMPUTER (C) DATA AREA 1008 DATA AREA 1009 DATA AREA 1010 **ANCHOR** CONTROL THUMB-POINTER VIDEO PICTURE AUD 10 INFO. NAIL (D) FOR CONT-**OBJECTS OBJECTS OBJECTS** 1011 **OBJECTS** ROL INFO. 1012 1013 1014 (RTR. 1F0) 1016 1015 AV DATA PLAYBACK RECORDING EDIT THUMBNAIL CONTROL CONTROL CONTROL CONTROL CONTROL INFO. 1101 INFO. 1021 INFO. 1022 INFO. 1023 INFO. 1024 (RTR_VMG) PGC. **CELL** ALLOC-VIDEO VIDEO PLAYBACK ATION TITLE SET **OBJECT** CONTROL (F) INFO. 1106 INFO. 1103 INFO. 1108 MAP TABLE INFO. 1107 (RTR_VMGI) (AVFIT) (PGCI) (CI)1105

FIG. 1

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ROOT DIRECTORY 1450 SUB DIRECTORY 1451 REWRITABLE TITLE SET RW_VTS 1452 (DVD_RTR DIRECTORY) RTR=REAL TIME RECORDING DATA FILES 1453 CONTROL INFORMATION 1011 =RW_VIDEO_CONTROL.IFO (RTR.IFO) BACKUP OF CONTROL INFO. =RW_VIDEO_CONTROL.BUP AV FILE 1401 (RTR DATA) =RW_OBJECT.OB VIDEO OBJECT (RTR_MOV. VRO) 1012 PICTURE OBJECT (RTR_STO.VRO) 1013 AUDIO OBJECT (RTR_STA. VRO) 1014 THUMBNAIL OBJECT 1016 REWRITABLE ADDITIONAL INFO. 1454 =RW_ADD. DAT SUB DIRECTORY 1451 VIDEO TITLE SET VIDEO_TS (OR VTS) 1455 AUDIO TITLE SET AUDIO_TS (OR ATS) 1456 SUB DIRECTORY FOR COMPUTER DATA STORAGE 1457

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VOB #3 VOB #3 VOB #2 UNRECORDED VOB #3 (1) (2) AREA (3) 1463 1461 1464 1462 1460 1465 EXTENT EXTENT EXTENT EXTENT EXTENT EXTENT EXTENT EXTENT # γ # α # β # ξ # ε # ε # ε 1473 1471 1474 1472 1470 1475 1473 1474 1472 1470 1475 1485 14 β 14 β # ε # ε 1473 1474 1472 1470 1475 1496 14 β 14 β 14 β 14 β 1496 14 β 14 β 14 β 14 β 1496 14 β 14 β 14 β 14 β 1496 14 β 14 β 14 β 14 β 1496 14 β 14 β 14 β 14 β 1496 14 β 14 β				
VOB #3 VOB #1 VOB #3 VOB #2 UNRECORDED (1) (1) AREA (1) 1463 1461 1462 1460 EXTENT EXTENT EXTENT EXTENT EXTENT # 7 # 3 # 6 # 5 # 5 # 7 # 471 1474 1472 1470 H 6 1472 1470 1470 1470 H 6 1472 1470 1470 1470 H 7 1473 1470 1470 1470 H 6 14 1472 1470 1470 H 7 14 14 14 14 H 7 14 14 14 14 H 7 14 14 14 14 H 8 14 14 14 14 H 7 14 14 14 14 H 14 14 14 14 14 H 14 14 14 </td <td></td> <td>က</td> <td></td> <td>LSNg</td>		က		LSNg
VOB #3 VOB #1 VOB #3 VOB #2 UNRECORDED (1) (1) AREA (1) 1463 1461 1462 1460 EXTENT EXTENT EXTENT EXTENT EXTENT # 7 # 3 # 6 # 5 # 5 # 7 # 471 1474 1472 1470 H 6 1472 1470 1470 1470 H 6 1472 1470 1470 1470 H 7 1473 1470 1470 1470 H 6 14 1472 1470 1470 H 7 14 14 14 14 H 7 14 14 14 14 H 7 14 14 14 14 H 8 14 14 14 14 H 7 14 14 14 14 H 14 14 14 14 14 H 14 14 14 </td <td></td> <td>08 # (3)</td> <td>XTEN #ε 1475</td> <td></td>		08 # (3)	XTEN #ε 1475	
VOB #3 VOB #1 VOB #3 VOB #2 (1) 1461 1464 1462 EXTENT EXTENT EXTENT EXTENT # y # a # b # b 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1474 1472 1472 1473 1474 1472 1472 1474 1472 1472 1473		>	ш	LSNf+1
VOB #3 VOB #1 VOB #3 VOB #2 (1) 1461 1464 1462 EXTENT EXTENT EXTENT EXTENT # y # a # b # b 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1474 1472 1472 1473 1474 1472 1472 1474 1472 1472 1473	· .	Œ	-	LSNf
VOB #3 VOB #1 VOB #3 VOB #2 (1) 1461 1464 1462 EXTENT EXTENT EXTENT EXTENT # y # a # b # b 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1474 1472 1472 1473 1474 1472 1472 1474 1472 1472 1473		ECORI AREA 1460	XTEN # ζ 1470	19
VOB #3 VOB #1 AV FILE 1401 (1) (1) (2) 1462 1462 1463 1461 1464 1462 1462 EXTENT EXTENT EXTENT EXTENT EXTENT # γ # α # β # β # β 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1471 1474 1472 1473 1474 1472 1472 1474 1474 1472 1472 1475 1474 1472 1472 1474 1474 1472 1472 1474 1474 1472 1472	-	UNR	Ш	LSNe+1
VOB #3 VOB #1 VOB #3 (1) 1463 1464 1463 1461 1464 EXTENT EXTENT # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$:	7	<u>.</u>	LSNe
VOB #3 VOB #1 VOB #3 (1) 1463 1464 1463 1461 1464 EXTENT EXTENT # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$ # \$		38 # 1462	XTEN # β 1472	
(1) 1463 1461 EXTENT # # # # # # # # # # # # # # # # # # #	. 1	V0E	П	LSNd+1
(1) 1463 1461 EXTENT # # # # # # # # # # # # # # # # # # #	E 14(8	—	LSNd
(1) 1463 1461 EXTENT # # # # # # # # # # # # # # # # # # #	AV FILI	08 # (2) 1464	XTEN #δ 1474	
VOB #3 VOB #1 (1) 1463 1461 EXTENT # # α 1473 1471 TSNa+5 1471 TSNa+5 TSNa+7 TA71 TSNa+6 TSNa+7 TA71 T		>	ш	LSNc+1
(1) 1463 EXTENT # # 7 1473 LSNa+5				LSNc
(1) 1463 EXTENT # # 7 1473 LSNa+5	!	VOB #1 1461	ENT a 71	
(1) 1463 EXTENT # 7 1473 TSNa+5			X # 4	LSNb+2
VOB #3 (1) 1463 EXTENT # 7 1473				LSNb+1
.				LSNb
.		#3 63	ENT 7	
LSNa+1		V0B (1	EX # 5	LSNa+2
	•			LSNa+1

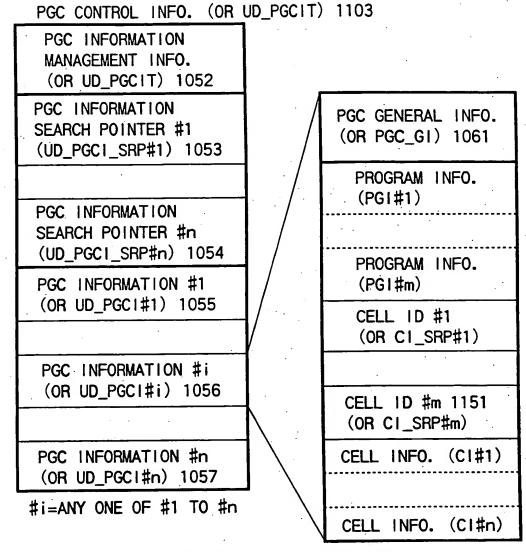
←SMALLER LOGICAL SECTOR NUMBER (LSN) LA ←INNER SIDE OF OPTICAL DISC 1001

LARGER LOGICAL SECTOR NUMBER (LSN) → OUTER SIDE OF OPTICAL DISC 1001→

F16, 4

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	•		·
CONTENTS OF ALLOCATION		NUMBER OF EXTENTS IN UNRECORDED AREA 1601	1
MAP TABLE		1ST ADR. (LSN) OF 1ST EXTENT IN UNRECORDED AREA 1606	e-a
DISTRIBUTION INFORMATION OF POSITIONS OF		SIZE (SECTORS) OF 1ST EXTENT IN UNRECORDED AREA 1614	f–e
UNRECORDED AREA 1621		NUMBER OF EXTENTS IN VOB #1 1602	1
DISTRIBUTION		1ST ADR. (LSN) OF 1ST EXTENT IN VOB #1 1607	b-a
INFORMATION OF POSITIONS OF	,	SIZE (SECTORS) OF 1ST EXTENT IN VOB #1 1615	c–b
RECORDED DATA AS TO VOB #1 1622		NUMBER OF EXTENTS IN VOB #2 1603	1
DISTRIBUTION	/ .	1ST ADR. (LSN) OF 1ST EXTENT IN VOB #2 1608	d-a
INFORMATION OF POSITIONS OF		SIZE (SECTORS) OF 1ST EXTENT IN VOB #2 1616	e-d
RECORDED DATA AS TO VOB #2 1623		NUMBER OF EXTENTS IN VOB #3 1604	3
DISTRIBUTION INFORMATION OF		1ST ADR. (LSN) OF 1ST EXTENT IN VOB #3 1609	1
POSITIONS OF RECORDED DATA	·	SIZE (SECTORS) OF 1ST EXTENT IN VOB #3 1617	b-a
AS TO VOB #3 1624		1ST ADR. (LSN) OF 2ND EXTENT IN VOB #3 1610	c-a
		SIZE (SECTORS) OF 2ND EXTENT IN VOB #3 1618	d–c
		1ST ADR. (LSN) OF 3RD EXTENT IN VOB #3 1611	f-a
FIG.5		SIZE (SECTORS) OF 3RD EXTENT IN VOB #3 1619	g–f



*1> PGC INFORMATION (OR UD_PGC1) CAN DEFINE A GROUP OF ONE OR MORE PROGRAMS;

- *2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
- *3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI_SRP);
- *4> EACH CELL ID (OR CI_SRP) CAN INDICATE POSITION (OR START ADDRESS) OF CELL INFORMATION (OR CI);
- *5> EACH CELL INFORMATION (OR CI) CAN DETERMINE START TIME AND END TIME OF PRESENTATION OF CELL

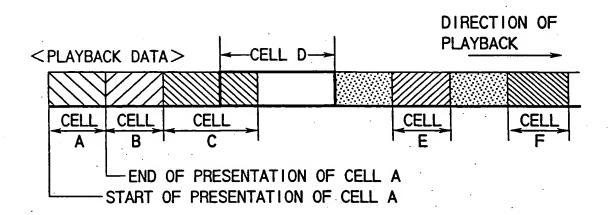


FIG. 7A

PGC INFORMATION (PGCI)

					
PGC#1	1081	PGC#2	1082	PGC#3	1083
NUMBE CELLS		NUMBE CELLS	ER OF S=3	NUMBE CELLS	ER OF S=5
#1	CELL A	#1	CELL D	#1	CELL E
#2	CELL B	#2	CELL E	. #2	CELL A
#3	CELL C	#3	CELL F	#3	CELL D
				#4	CELL B
				#5	CELL E
CELL ID	CELL INFO.	CELL ID	CELL INFO.	CELL	CELL INFO.
CI_SRP #m=3	CI #n=3	CI_SRP #m=3	CI #n=3	CI_SRP #m = 5	C1 #n=4

FIG. 7B

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NUMBER OF VOB IN VTS OR PLAY LIST SEARCH POINTER TABLE INFO. (PL_SRPTI) 1756 1ST VOB ID IN VOB SEQ. OR 1ST PLAY LIST SEARCH POINTER (PL_SRP#1) 1757 PLAY LIST 2ND VOB_ID IN VOB SEQ. SEARCH POINTER OR 2ND PLAY LIST SEARCH TABLE POINTER (PL_SRP#2) 1758 (PL SRPT) VIDEO nTH VOB_ID IN VOB SEQ. MANAGER INFO. OR nTH PLAY LIST SEARCH MANAGEMENT POINTER (PL_SRP#n) TABLE (VMGI_MAT) RTR VIDEO MANAGER VTSI 1106 INFO. (RTR_VMGI) (RTR_VMGI) NAVIGATION DATA RTR_VMG (RTR.IFO) MOVIE AV FILE INFO. VTS GENERAL TABLE (M_AVFIT) INFO. 1751 STILL PICTURE AV FILE **VOB SEQUENCE** INFO. TABLE (S_AVFIT) INFO. 1752 ORIGINAL PGC INFO. PTT INFO. (ORG_PGCI) 1753 USER DEFINED PGC VTS TIME MAP INFO. TABLE (UD_PGCIT) **TABLE 1754** TEXT DATA MANAGER (TXTDT_MG) MANUFACTURER'S INFO. TABLE (MNFIT) FIG. 8

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							•		
F16.9A				AV	AV FILE 1401	10			
F1G.9B			5	VTS (OR RTR_MOV.VRO) 1402	TR_MOV. VF	30) 1402			
	VOB#1 1461	V 4	V08#2 1462		> -	V0B#3 1763		UNR	UNRECORDED AREA 1460
F16.90	EXTENT#α 1471	EXI	EXTENT# /3 1472	EXTENT# γ 1473		EXTENT# 8 1474	EXTENT# ¢		EXTENT# \$ 1470
н.				*					
FIG. 9D				AV	AV FILE 1401	15			
F16.9E		TS (OR	RTR_MOV	. VRO/RTF	STO. VR	J/RTR_STA	VTS (OR RTR_MOV. VRO/RTR_STO. VRO/RTR_STA. VRO) 1402	21	
		1	••••		-#190\^_S	#190			
	VOB#A W	V0B#B 1772	V0B#C 1773	V0B#D 1774	V0B#E 1775	V08#F 1776	V08#G	V0В#Н 1778	V0B#1 1779
	VIDEO OB IECTS		AUDIO OB IECTS	PICTURE OR IECTS	URE	AUDIO OR IECTS	0 TZ	THUMBNAII	NA I L TS
F16 9F	1012		1014	1013	2	1014	2	1016)
5	RTR_MOV. VRO-	VRO VRO		RTR_STO.VRO-	TO. VRO→	1 J	-RTR_STA. VRO-		*

FIG. 10A	VOB FOR P	ICTURE OBJE	FIG. 10A VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1631	URE VOB GROUP RE	LATING TO S_	V0G1#) 1631
FIG. 10B			VOBU (FOR ONE STILL PICTURE) 1641	ILL PICIURE) 164		•
	V_PCK 1661	V_PCK 1662	V_PCK 1663	SP_PCK 1681	A_PCK 1691	A_PCK 1692
FIG. 100		I-PICTURE 1706	DUMMY DATA	SP_STREAM	A_STREAM	A_STREAM
			-VIDEO PART		AUDIO PART	PART

F16.	100	VOB FOF	PIC	TURE OBJ	ECTS (0	R STILL	PICT	JRE VOE	FIG. 10D VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1632	EAT	NG TO S_	190 100 100 100 100 100 100 100 100 100	1632
F16.	10E	VOBU (ON	E ST	FIG. 10E VOBU (ONE STILL PICT.) 1642	.) 1642		V0BU 1643	43			VOB	V0BU 1644	4
FIG. 10F	10F	V_PCK 1664		SP_PCK	A_PCK 1693	V_PCK 1665		A_PCK 1694	A_PCK V_PCK 1694 1666		V_PCK 1667		A_PCK 1695

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	PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1633
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FIG. 10G VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1633	VOB FOR	PICTURE 0	BJECTS (OR STILL	PICTURE	VOB GROU	JP RELATI	NG T(\$_V061	;) 1633
FIG 10H VOBU (ONE STILL PICTURE) 1645	VOBU	(ONE STILL	PICTURE) 1645		V0BU 1646			V08U 1647	647
5										
	V_PCK 1668	V_PCK 1669	V_PCK 1670	SP_PCK 1683	V_PCK 1671	SP_PCK	V_PCK 1673		V_PCK 1674	
FIG. 101	I-PICT	I-PICTURE 1707	DUMMY SP_ 1704 STREAM	SP_ STREAM	I-PICT	I-PICTURE 1708	DUMMY 1705		I-PICTURE 1709	E 1709
		VIDEO PART	PART			-VIDEO PART-			←-VIDEO PART>	PART —
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#190A	i
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RELAI	
GROUP	
708	
PICTURE VOB GROUP RELATING TO S_VOGI#) 1634	
STILL	
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ICTURE OBJECTS (OR STILL PI	
PICTURE	
FG	ı
V0B	
10.	
E E	-

FIG. 10K VOBU (ONE	옹	NOBU (i 1	STILL PICTURE) 1648	E) 1648	Λ	V0BU 1649		V0BU 1650	1650	
FIG. 1	OF	SP_PCK 1684	A_PCK 1696	A_PCK 1697	_PCK	A_PCK A_PCK 1699 1700		A_PCK 1701	A_PCK 1702		
			AUDI(-AUDIO PART		AUDIO PART	UDIO PAR		←—AUDIO PART—►	PART -	

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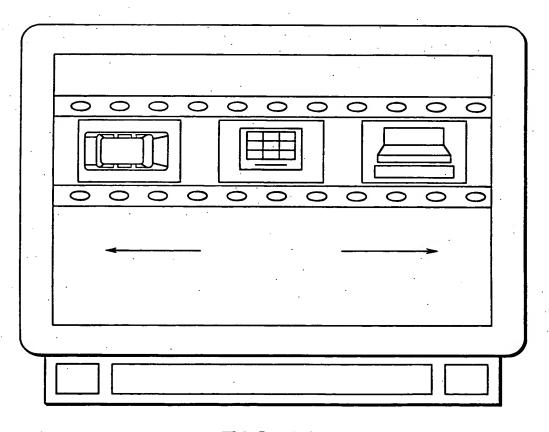


FIG. 11

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STILL PICTURE AV FILE (S_AVFIT)

STILL PICTURE AV FILE INFO. TABLE INFO. (S_AVFITI)

STILL PICT. VOB STREAM INFO. #1 (S_VOB_STI#1)

STILL PICT. VOB STREAM INFO. #n (S_VOB_STI#n)

STILL PICTURE AV FILE INFO. (S_AVFI)

STILL PICT. AD-DITIONAL AUDIO STREAM INFO. #1 (S_AA_STI#1)

STILL PICT. AD-DITIONAL AUDIO STREAM INFO. #m (S_AA_STI#m)

STILL PICTURE ADDITIONAL AUDIO FILE INFO. (S_AAFI) VOB INFO. FOR
PICT. OBJECTS
MANAGEMENT
INFO. 1721
(OR S_AVFI_GI)
SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#1 1726 (OR
S_VOGI_SRP#1)
SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#1 1727 (OR
S_VOGI_SRP#i)

SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#k 1728 (OR
S_VOGI_SRP#k)
VOB INFO. FOR

PICT. OBJECTS #1 1731 (OR S_VOGI#1) VOB INFO. FOR PICT. OBJECTS #i 1732 (OR S_VOGI#i)

VOB INFO. FOR PICT. OBJECTS #k 1733 (OR S_VOGI#k)

VOB GENERAL INFORMATION FOR PICTURE OBJECTS 1736 (OR STILL PICTURE VOB GROUP GENERAL INFO. S_VOG_GI)

VOB ATTRIB.
INFORMATION
FOR PICTURE
OBJECTS
1737

VOBU MAP FOR PICTURE
OBJECTS
1738 (OR STILL PICTIRE VOB ENTRES S_VOB_ENT#)

FIG. 12 #i=ANY ONE OF #1 TO #k

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VOB STILL PICT. ATTRIB. ENTRY TYPE INFO. $(S_VOB_$ FOR ENT TY) PICT. OBJ. NUMBER OF 1737 STILL PICT. (OR NUMBER VOBU OF VOBUs) MAP IN CORRES-FOR PONDING PICT. VOB 1801 OBJ. (OR 1738 S VOB Ns) (S VOB INFO. OF 1ST ENT#) STILL PICT. IN CORRES-PONDING VOB 1802 V0B INFO. OF 2ND GENERAL STILL PICT. INFO. IN CORRES-1736 PONDING OR VOB 1803 $S_VOG_$ INFO. OF 3RD GI STILL PICT.

DATA SIZE OF STILL PICTURE (OR VOBU) INDICATED BY USED SECTORS 1806 (OR VIDEO PART SIZE V_PART_SZ/ AUDIO PART SIZE A PART SZ) DISPLAY TIME OF ONE STILL PICTURE 1807 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOBU CONTAINS A PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOBU CONTAINS NO A PCK) ADDRESS OF 1ST V PCK IN VOBU 1808 (OR S_VOG_SA) SIZE OF I-PICTURE IN VOBU (INDICATED BY TOTAL BYTES) 1809 PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1810 1ST SYSTEM CLOCK REFERENCE F_SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1811 ADDRESS OF 1ST A_PCK IN VOBU 1812 AUDIO S PTM (PRESENTATION START TIME OF A_PCK) 1813 AUDIO E PTM (PRESENTATION END TIME OF A_PCK) 1814 AUDIO F SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOBU) 1815 AUDIO L SCR (SYSTEM CK REF.

OF LAST A PCK IN VOBU) 1816

PLAYBACK TIME OF AUDIO PART A_PB_TM

IN CORRES-

PONDING

VOB 1804

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FIG. 14A				9	V0B #A 1821	21	-		
	VOBU	VOBU 1825	>	V0BU 1826	9		VOE	V0BU 1827	
FIG. 14B	STILL PIO	ILL PICT. NO. 1	STILL	STILL PICT. NO.	NO. 2		STILL	STILL PICT. NO.	h
	STLPCT	AUDIO	STLPCT	PCT	AUDIO	STLPCT	STLPCT	AUDIO	
	1831	1841	1832	2	1842	1833	1834	1843	
0	V_PCK	A_PCK	V_PCK	Xd dS	A_PCK	V_PCK	V_PCK	A_PCK	
F16. 14C	1851	1861	1852	1848	1862	1853	1854	1863	
	CONITENIES	J.		III PICT		 -	V I	CTIII	PICT
		2	N N	إبا			<u> </u>		:
	SPECIFIED BY CLI		V_PCK	XP_PK	A_PCK	V PCK	V PCK		*
FIG. 14D		_1	1852	1848	71865	1853	1854	+	
-				λ.					
		A_PCK	V_PCK	A_PCK	V_PCK	V_PCK	A_PCK	V_PCK	
		1864	1855	1865	1856	1857	1866	1858	
i		AUDIO	STLPCT	AUDIO	STLPCT	STLPCT	AUDIO	STLPCT	
F16.14E		1844	1835	1845	1836	1837	1846	1838	
			Ξ						
			STILL PICTURE	CTURE		STILL	STILL PICTURE		
			 9			NO. h+j-2	1-2	-	
FIG. 14F			VOBU 1828	1828		VOBU	V0BU 1829		
								*	
FIG. 146				00	VOB #B 1822	22			·

CONTENTS (S_CI) OF CELL PLAYBACK INFO. (CI) FOR PICTURE OBJECTS 1870	EXAMPLE 1871 WITH RESPECT TO FIG.14	EXAMPLE 1872 WITH RESPECT TO FIG.14
CELL ID (CI_SRP) 1873		
TYPE INFORMATION OF CELL (C_TY) 1880		
ID INFORMATION OF VOB WITH V_PCK 1874	VOB #A	1821
STILL PICT. NUMBER 1875 IN VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL (S_S_VOB_ENTN)	2	1826
STILL PICT. NUMBER 1876 IN VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL (E_S_VOB_ENTN)	h	1827
ID INFORMATION OF VOB WITH A_PCK 1877	VOB #B	1822
STILL PICT. NUMBER 1878 IN VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL	j	1828
PRESENTATION TIME 1879 OF EACH STILL PICTURE HAVING NO CORRESPONDING A_PCK	2 SECONDS (ONE LINE)	· <u></u>

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CONTENTS OF CELL PLAYBACK INFO. (CI) FOR PTT
CELL ID (CI_SRP) 1883
TYPE INFO. OF CELL (C_TY) 1882
ID INFO. OF PTT WITH V_PCK 1884
STILL PICTURE NUMBER 1885 IN PTT OF VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL
STILL PICTURE NUMBER 1886 IN PTT OF VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL
ID INFO. OF PTT WITH A_PCK 1887
STILL PICTURE NUMBER 1888 IN PTT OF VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL
PRESENTATION TIME 1889 OF EACH STILL PICT. HAVING NO CORRESPONDING A_PCK

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STILL PICTURE AV FILE INFO. (S_AVFI) FOR PTT (CHAPTER)

PTT INFO. FOR PICT. OBJECTS MANAGEMENT INFO. 1891

SEARCH POINTER
OF PIT INFO. FOR
PICT. OBJECTS
#1 1892

SEARCH POINTER OF PTT INFO. FOR PICT. OBJECTS #2 1893

PTT INFO. FOR PICT. OBJECTS #1 1895

PTT INFO. FOR PICT. OBJECTS #2 1896

PTT GENERAL INFORMATION FOR PICTURE OBJECTS 1898

VOB MAP FOR PICTURE OBJECTS 1899

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VOB MAP FOR PICT. OBJECTS 1899

NUMBER OF STILL PICT. (OR NUMBER OF VOBs) IN CORRESPONDING PTT 1901 (OR S_VOB_Ns)

INFO. OF 1ST STILL PICT. IN CORRESPONDING PTT 1902

INFO. OF 2ND STILL PICT. IN CORRESPONDING PTT 1903 DATA SIZE OF STILL PICTURE (OR VOB) INDICATED BY USED SECTORS 1906

DISPLAY TIME OF ONE STILL
PICTURE 1907 REPRESENTED
BY PLAYBACK TIME OF AUDIO
PART (IF VOB CONTAINS
A_PCK) OR REPRESENTED BY
DISPLAY TIME OF VIDEO PART
(IF VOB CONTAINS NO A_PCK)

ADDRESS OF 1ST V_PCK IN VOB 1908 (OR S_VOG_SA)

SIZE OF I-PICTURE IN VOB (INDICATED BY TOTAL BYTES) 1909

PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1910

1ST SYSTEM CLOCK REFERENCE F_SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1911

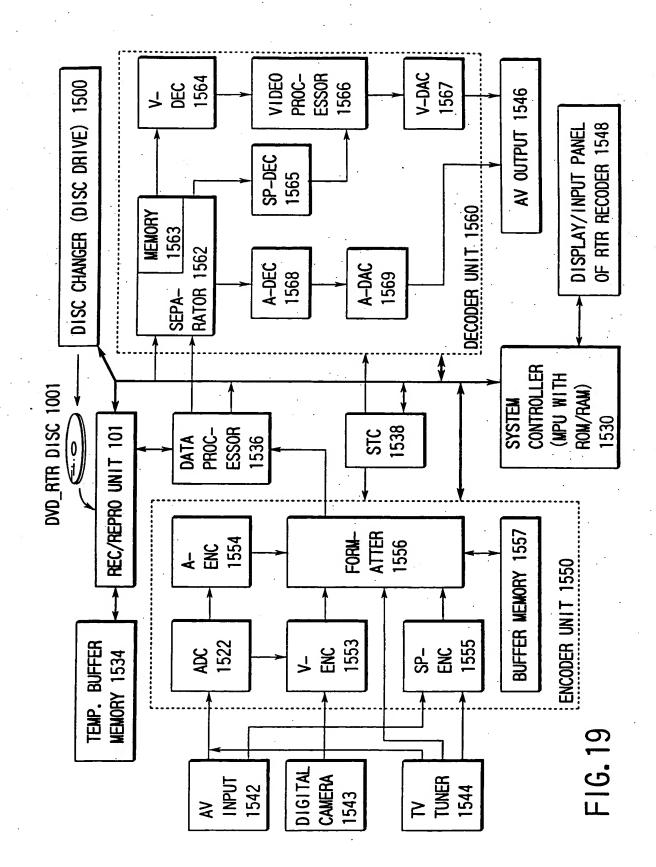
ADDRESS OF 1ST A_PCK IN VOB 1912

AUDIO S_PTM (PRESENTATION START TIME OF A_PCK) 1913

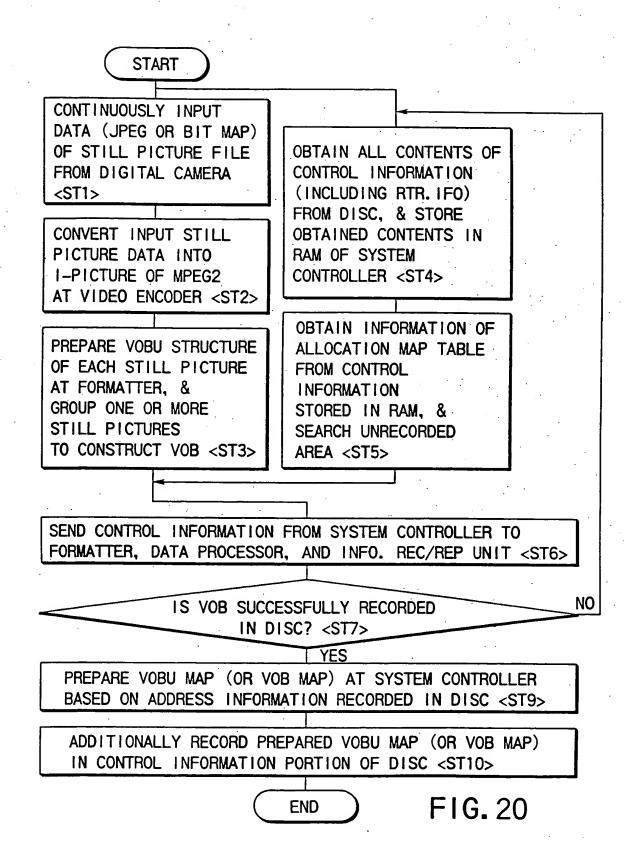
AUDIO E_PTM (PRESENTATION END TIME OF A_PCK) 1914

AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOB) 1915

AUDIO L_SCR (SYSTEM CK REF. OF LAST A_PCK IN VOB) 1916



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START

OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR.1FO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>

OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>

SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>

OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <\$T14>

ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB. & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>

RECEIVE ADDITIONAL INFO. INPUT BY USER WHILE DISPLAYING AV OUTPUT, & GROUP ONE OR MORE STILL PICTURES AT FORMATTER BASED ON USER-INPUT INFORMATION TO PREPARE VOB OR PTT <ST19>

RECORD INFORMATION OF VOB PREPARED BY FORMATTER <ST20>

END

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START

OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR.1FO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>

OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>

SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>

OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <ST14>

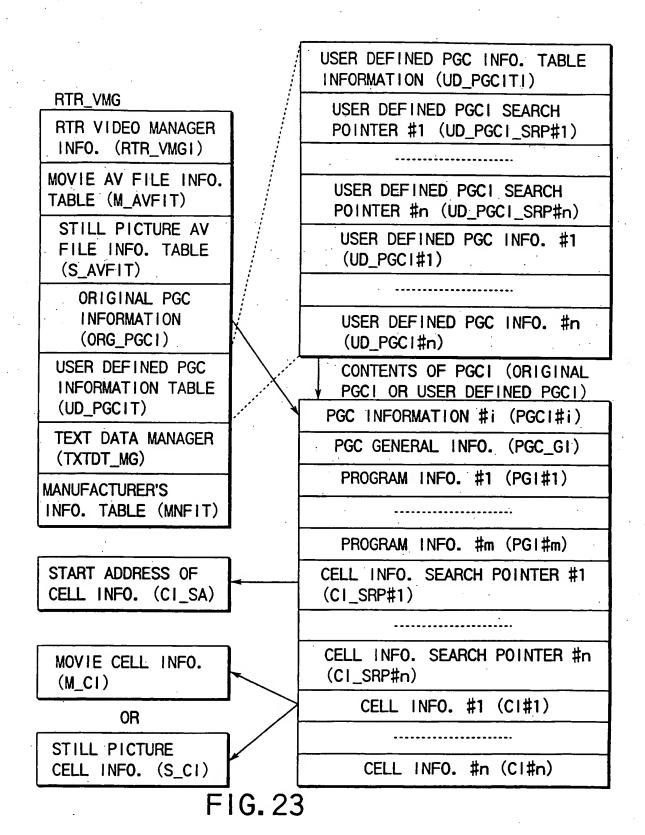
ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB, & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>

ACCESS VOB #A RECORDED IN DISC TO PROVIDE STILL PICTURE INFORMATION OF VOB #A <ST16>

ACCESS VOB #B IN DISC TO REPRODUCE AUDIO INFORMATION OF VOB #B, & PROVIDE AUDIO INFO. OF VOB #B AND STILL PICTURE INFO. OF VOB #A AS AV OUTPUT FOR STILL PICTURE DISPLAY WITH SOUND <ST17>

END

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STILL PICTURE CELL INFO. (S_CI)

STILL PICTURE CELL GENERAL INFORMATION (S_C_GI)

STILL PICT. CELL ENTRY POINT INFORMATION #1 (S_C_EPI#1)

STILL PICT. CELL ENTRY POINT INFORMATION #n (S_C_EPI#n)

FIG. 24

CONTENTS OF S_C_GI

FIELD NAME	CONTENTS
RESERVED	RESERVED
C_TY	CELL TYPE
S_VOGI_SRPN	S_VOGI SEARCH POINTER NUMBER
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.
S_S_VOB_ENTN	START S_VOB_ENT NUMBER
E_S_VOB_ENTN	END S_VOB_ENT NUMBER

FIG. 25

CONTENTS OF S_C_EPI

FIELD NAME	CONTENTS
EP_TY	ENTRY POINT TYPE
S_VOB_ENTN	S_VOB_ENT NUMBER
PRM_TXT1	PRIMARY TEXT INFORMATION

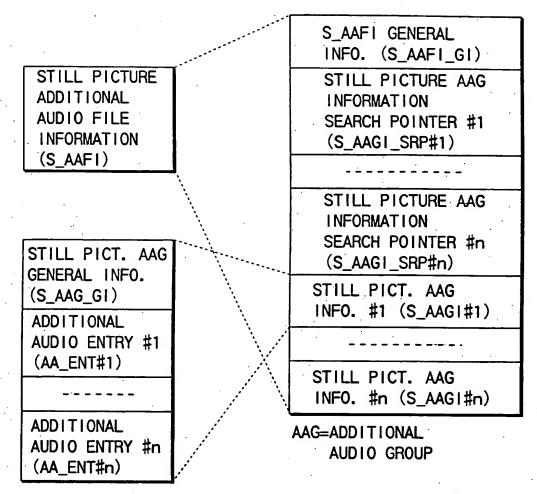


FIG. 27

CONTENTS OF S_AAG_GI

FIELD NAME	CONTENTS
AA_ENT_Ns	NUMBER OF AA_ENT
S_AA_STIN	STILL PICTURE ADDITIONAL AUDIO STREAM INFORMATION NUMBER
S_AAG_SA	START ADDRESS OF THIS AAG IN STILL PICTURE ADDITIONAL AUDIO FILE

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CONTENTS OF AA_ENT

FIELD NAME	CONTENTS
AA_TY	ADDITIONAL AUDIO TYPE
AA_SZ	SIZE OF ADDITIONAL AUDIO STREAM
AA_PB_TM	PLAYBACK TIME OF ADDITIONAL AUDIO STREAM (MEASURED BY VIDEO FIELDS)

FIG. 29

CONTENTS OF S_VOG_GI

FIELD NAME	CONTENTS
S_V0B_Ns	NUMBER OF S_VOBs
S_VOB_STIN	STILL PICTURE VOB STREAM INFORMATION NUMBER
FIRST_VOB_REC_TM	TIME WHEN THE FIRST VOB IN THIS VOB GROUP WAS RECORDED
LAST_VOB_REC_TM	TIME WHEN THE LAST VOB IN THIS VOB GROUP WAS RECORDED
S_VOG_SA	START ADDRESS OF THIS VOB GROUP IN STILL PICTURE AV FILE

FIG. 30

CONTENTS OF S_VOB_ENT (TYPE 1)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART

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CONTENTS OF S_VOB_ENT (TYPE 2)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART (DESCRIBED IN VIDEO FIELDS)

FIG. 32

CONTENTS OF S_VOB_ENT (TYPE 3)

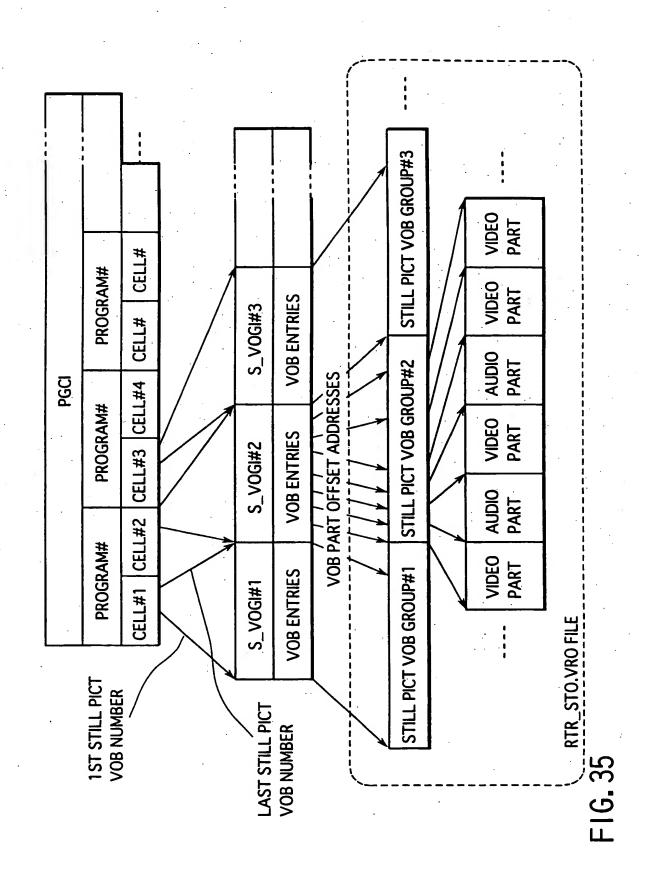
FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

FIG. 33

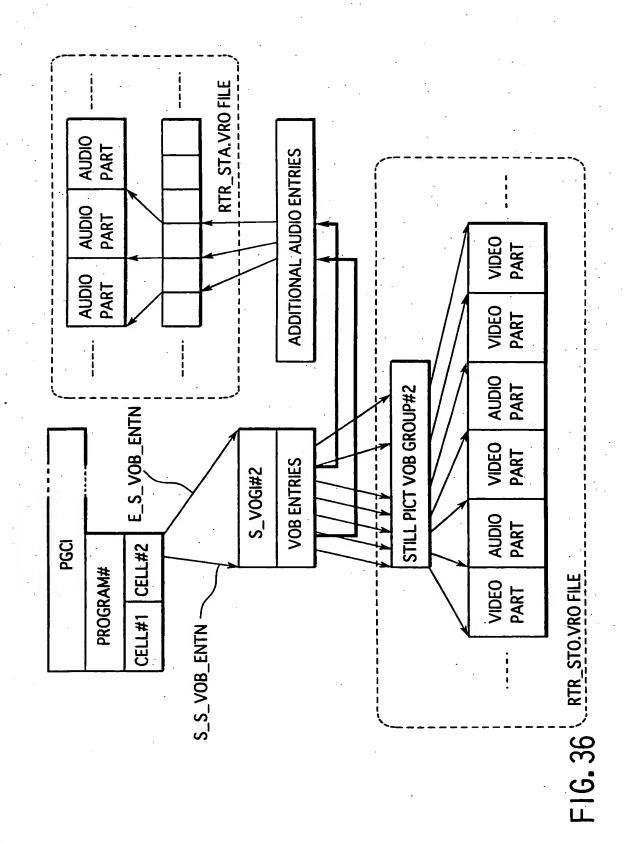
CONTENTS OF S_VOB_ENT (TYPE 4)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

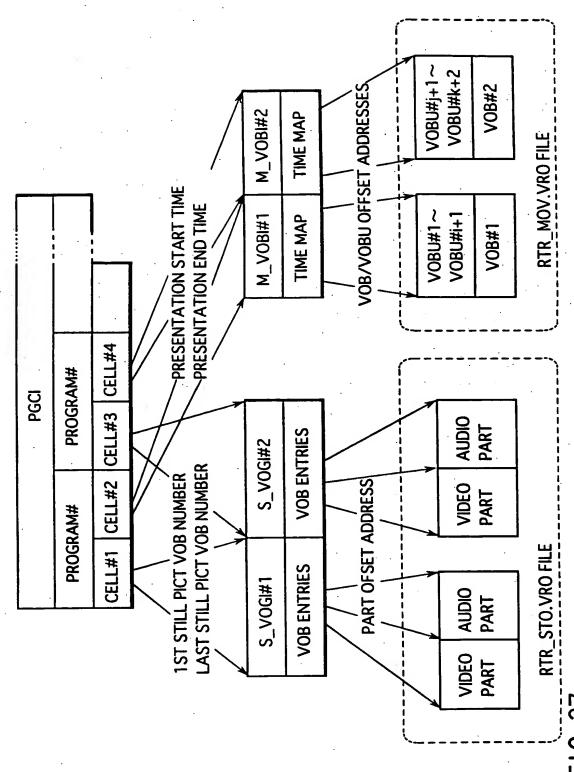
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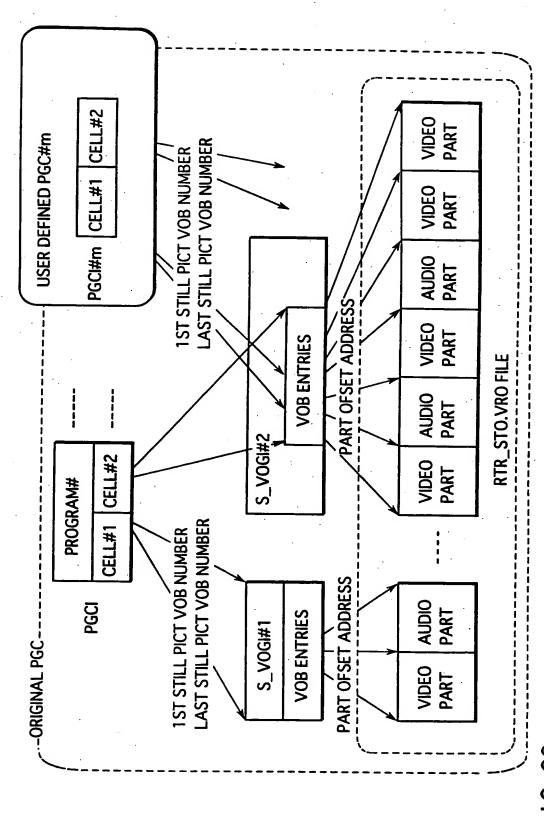


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